

**UTILITY PATENT APPLICATION TRANSMITTAL**

**MAIL STOP PATENT APPLICATION**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

**Customer No. 23696**  
**Attorney Docket No.: 030475**  
**Date: February 27, 2004**  
**Express Mail Label No.: EL 977102028 US**

Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): Hanfang Pan, Inyup Kang, James KryslFor: EFFICIENT MULTI-SYMBOL DEINTERLEAVER

Enclosed are:

1. ☒ Patent application (31) total pages.
2. ☒ Drawings: ☒ Formal (10) sheet(s) or ☐ Informal ( ) sheet(s).
3. ☒ Declaration/Power of Attorney: ☒ Signed ☐ Unsigned
4. ☐ This application claims priority from Application Serial No. , Filed , Status .
5. ☒ An Assignment (4) pages and Recordation Form Cover Sheet.
6. ☐ A Preliminary Amendment ( ) pages.
7. ☐ Information Disclosure Statement (IDS):
  - a. ☐ PTO-1449
  - b. ☐ Copies of IDS Citations (number of citations: )
8. ☐ Other:

| CLAIMS:  | (a) Filed | (b) Extra Claims | Large Entity Fee | Fee Paid   |
|--|-----------|------------------|------------------|------------|
| Total*   | 36 - 20   | 16               | x \$18 =         | \$288.00   |
| Independent**  | 5 - 3     | 2                | x \$86 =         | \$172.00   |
| Multiple Dependent Claim(s): <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes |           |                  | \$290            | \$0        |
| APPLICATION FILING FEE   |           |                  | \$770            | \$770.00   |
| TOTAL FEE  |           |                  |                  | \$1,230.00 |

\*If the number in column a is less than 20, enter 0 in column b.

\*\*If the number in column b is less than 3, enter 0 in column b.

9. ☐ A check in the amount of \$\_\_\_\_\_ is enclosed to pay the filing fee.
10. ☒ Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated the amount of \$1,230.00. The Commissioner is hereby authorized to charge payment of any additional fees which may be required, or credit any overpayment, to said Deposit Account No. 17-0026. A duplicate of this sheet is enclosed for fee processing.
11. ☒ The Commissioner is further hereby authorized to charge to said Deposit Account No. 17-0026, pursuant to 37 CFR 1.25(b), any fee whatsoever which may become properly due or payable, as set forth in 37 CFR 1.16 to 37 CFR 1.18 inclusive, for the entire pendency of this application without specific additional authorization.

Date: February 27, 2004Signature: 

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